

DESCRIPTION:

PMI MODEL NUMBER PE2-45-1R018R0-4R5-22-12-SFF IS A LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE. DATA IS AVAILABLE UPON REQUEST.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 1.0 TO 18.0 GHz
- GAIN:..... 45 dB TYP, 41 dB MIN
- GAIN FLATNESS:..... ±1.5 dB MAX
- NOISE FIGURE:..... 4.5 dB TYP, 5 dB MAX
- OP1dB:..... +20 dBm MIN
- VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
- CONNECTORS:..... SMA (F) REMOVABLE
- DC SUPPLY:..... +12 TO +15 VDC @ 385 mA NOM
- SIZE:..... (L) 1.08" X (W) 0.71" X (H) 0.29" \*EXCLUDING CONNECTORS\*
- FINISH:..... GOLD PLATED

FEATURES:

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY
- STANDARD OPERATING TEMPERATURE (-55°C TO +85 °C )

AVAILABLE OPTIONS:

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- HERMETIC SEALING
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

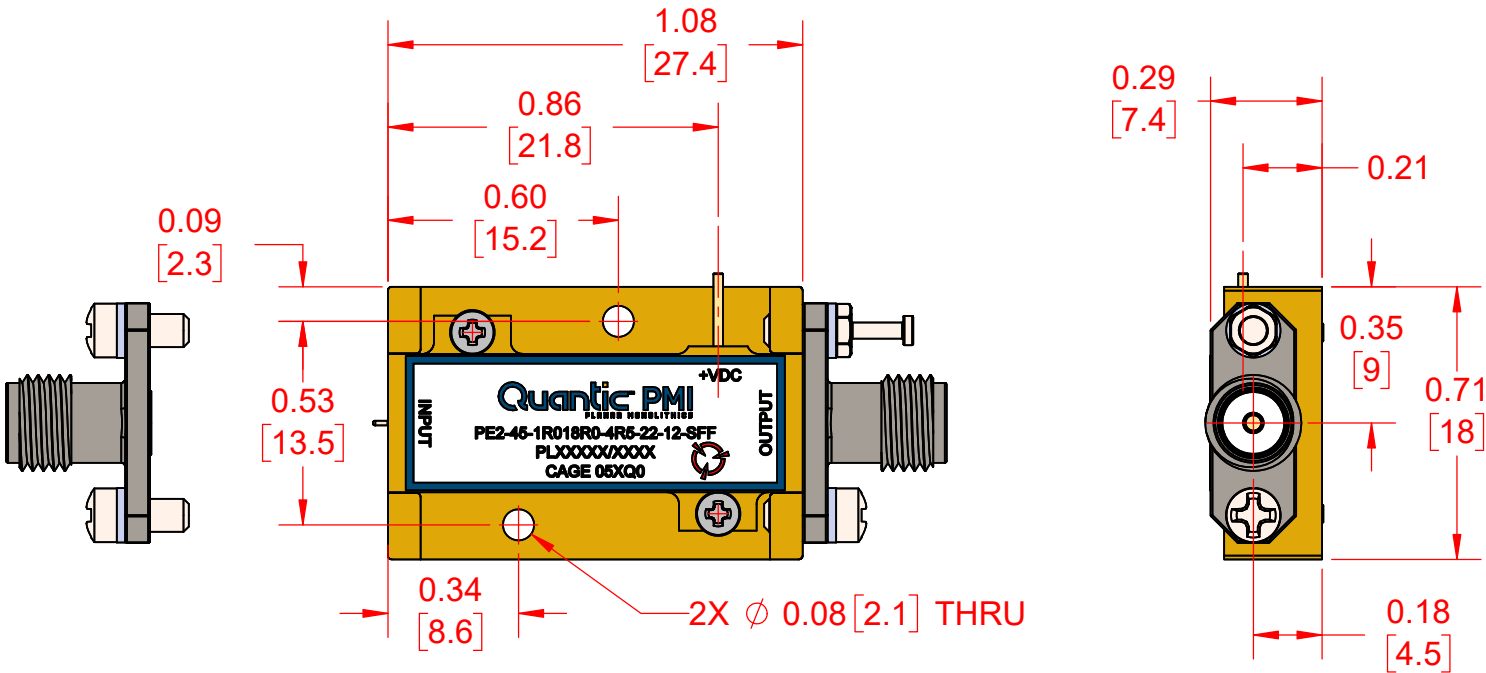
ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, METHOD 107D COND. A

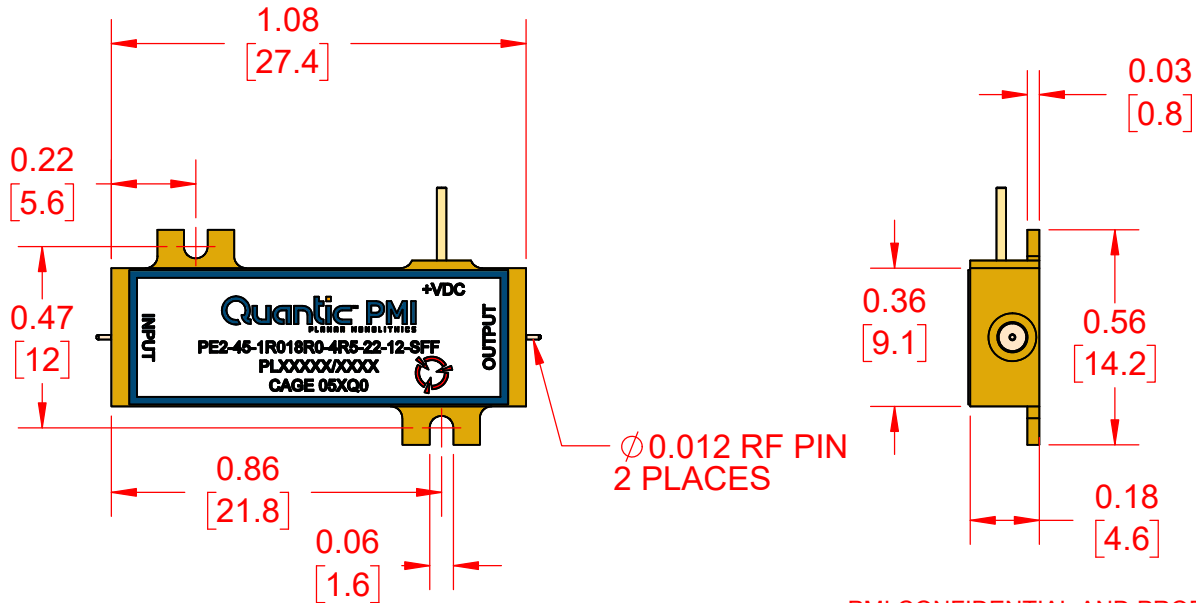
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/17/2023	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER



PMI CONFIDENTIAL AND PROPRIETARY

					<div>Quantic PMI</div> <div>PLANAR MONOLITHICS</div> <div>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA</div> <div>TEL: (301) 662-5019, FAX: (301) 662-1731</div> <div>WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM</div> <div>ISO 9001 CERTIFIED</div>						
					APPROVALS		DATE		TITLE OUTLINE PE2-45-1R018R0-4R5-22-12-SFF		
					DRAWN J ESCANO		10/17/2023				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			REDRAWN		SIZE B		FSCM NO. 05XQ0		DWG NO. 27047340		REV. A1
FRACTIONS    DECIMALS    ANGLES ±                    .XX ± 0.02                    ± .XXX ± 0.01			ISSUED								
					SCALE 2:1						SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
FRACTIONS DECIMALS ANGLES  
± .XX ± 0.02 ±  
± .XXX ± 0.01